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54 **Personal health monitor.**

57 A personal health monitor (60) includes sensors for measuring patient weight, temperature, blood pressure, and ECG waveform. The monitor is coupled to a central unit (20) via modems (22, 62) and includes a computer which is programmed to prompt a patient to take prescribed medication at prescribed times, to use the sensors to measure prescribed health parameters, and to supply answers to selected questions. Medication compliance information, test results, and patient answers are compiled in a composite log which is automatically transmitted to the central unit. The computer is also programmed automatically to disconnect the monitor from an alternating current power source and to rely on internal battery power during certain periods of patient-

monitor interaction, such as during use of the ECG module. In this way, danger to the patient and complexity of the ECG module are minimised. The computer is also programmed to compare measured test information with predetermined expected values, and in the event of a discrepancy, to collect additional information from the patient to assist trained personnel at the central unit in interpreting the composite log. The computer is also programmed to alert the central unit promptly in the event one or more measured parameters falls outside of a prescribed normal range. The normal range for a given parameter is made to vary in accordance with the measured value of one or more other parameters in order to reduce the incidence of false alarms.

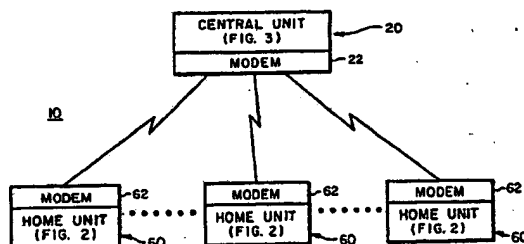


FIG. 1



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EUROPEAN SEARCH REPORT

Application number

EP 87 30 5049

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	EP-A-0 128 054 (SIMATEC) * Page 3, lines 9-16; page 8, lines 19-26; page 11, lines 1-35 *	1-5	G 06 F 15/42
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A	US-A-4 483 346 (SLAVIN) * Column 2, lines 3-54; figures 1, 3 *	1-5	
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A	US-A-4 232 682 (VETH) * Column 2, lines 5-27 *	2	
	--		
D, A	US-A-4 296 756 (DUNNING et al.) * Column 3, lines 1-48 *	1-5	
	--		
A	ELECTRICAL DESIGN NEWS, vol. 28, no. 8, April 1983, pages 123-131, Boston, Ma, US R.H. CUSHMAN: "Hands-on investigations help exploit CMOS designs" * Paragraph "Power supply board"; pages 125-125; figures 3, 4 *	6-12	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) G 06 F 15/42
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A	GB-A-2 142 727 (TURNER) * Page 2, lines 27-53; figure 2 *	6-12	
	--		
A	US-A-3 858 576 (DEHRENT et al.) * Column 2, lines 8-22; figure 1 *	6-12	
	--		
A	IEEE SPECTRUM, vol. 13, no. 4, April 1976, pages 40-43 ./.		
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 25-04-1990	Examiner LECOMTE
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid.
- namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.

namely:

1. Claims 1-5: Personal health monitor combining recording of health parameters and medication compliance
2. Claims 6-12: Personal health monitor with specific parvening means.
3. Claims 13-18: Personal health monitor with means for asking additional diagnostic information.
4. Claims 19-23: Personal health monitor with means for slenting a central station.

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid.
- namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.
- namely claims:



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EUROPEAN SEARCH REPORT

Application number

EP 87 30 5049

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
A	R.K. JUNGEN: "Software (and hardware) for the 'medics'" * Page 1, column 2, lines 31-53 *	1-5, 13-23	
	WO-A-83 03 744 (REINHOLD et al.) * Page 4, line 16 - page 9, line 23; page 26, line 18 - page 27, line 23; page 32, lines 4-17 *	13-23	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
Place of search		Date of completion of the search	Examiner
CATEGORY OF CITED DOCUMENTS			
<p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			